



## Occupational Health and Safety

### PLANT RISK ASSESSMENT

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Plant Description:	CAT 950F/G/H	Plant ID:		Assessment No:	PRA-02
Prepared by: Date:	Greg Fieldwick 15/07/2019	Approved by: Date:		Steven Fieldwick 15/07/2019	

#### Reference Documents:

**Fieldwicks SW106 Loader Operations**  
**Fieldwicks Employee Induction Handbook**  
**Manufacturers Maintenance Manual**  
**Manufacturers Operating Manual**

Note : Refer to the Risk Matrix set out in OH&SP No. 004 for calculation of risk level

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Entanglement:</b> Hair, clothing, gloves, or other materials becoming entangled with moving parts of the plant</p>	16	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP106 to be read and understood by all operators</li> <li>• Machine guarding in place and checked on a daily basis as part of start up procedures</li> <li>• No person permitted to be in close proximity to the operating area of the machine unless authorised and has made contact with the operator</li> <li>• All obstacles that may be in the path of a machine are removed before work commences</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Driver only permitted in cab during operation</li> </ul>	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p><b>Crushing:</b> Uncontrolled or unexpected movement of the plant</p>	16	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP106 to be read and understood by all operators</li> <li>• Operator Manual Located in Cab of Machine at all times</li> <li>• Warning decals on machine highlighting pinch points / close clearance</li> <li>• Machine controls have their functions labelled</li> <li>• No person permitted to be in close proximity to the operating area of the machine unless authorised and has made contact with the operator</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Machine fitted with warning lights</li> <li>• Machine fitted with rear view mirrors</li> </ul>	2
<b>Cutting, Stabbing, Puncturing:</b>		<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> </ul>	

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
Contact with moving parts of machine, sharp objects	16	<ul style="list-style-type: none"> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP106 to be read and understood by all operators</li> <li>• Operator Manual Located in Cab of Machine at all times</li> <li>• Machine controls have their functions labelled</li> <li>• All obstacles that may be in the path of a machine are removed before work commences</li> <li>• Machine bucket, attachments etc are always lowered to the ground before any attempt to repair or inspect them</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Regular job briefing take place between all relevant stakeholders when machine is operating</li> </ul>	2
<b>Shearing:</b>		<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> </ul>	

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
Body parts sheared between two parts of the machine or other structures	16	<ul style="list-style-type: none"> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Operator Manual Located in Cab of Machine at all times</li> <li>• Warning decals on machine highlighting pinch points / close clearance</li> <li>• Machine controls have their functions labelled</li> <li>• No person permitted to be in close proximity to the operating area of the machine unless authorised and has made contact with the operator</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine fitted with movement alarm</li> <li>• Machine fitted with warning lights</li> <li>• Lockable cab to prevent unauthorised access</li> <li>• Driver only permitted in cab during operation</li> </ul>	2
<b>Striking:</b>		<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> </ul>	

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<i>During operation of plant, moving parts of plant, movement of plant</i>	16	<ul style="list-style-type: none"> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Warning decals on machine highlighting pinch points / close clearance</li> <li>• Machine controls have their functions labelled</li> <li>• Machines fitted with pattern changes have warning signage to advise operator to check before moving</li> <li>• No person permitted to be in close proximity to the operating area of the machine unless authorised and has made contact with the operator</li> <li>• All obstacles that may be in the path of a machine are removed before work commences</li> <li>• Regular job briefing take place between all relevant stakeholders when machine is operating</li> <li>• Machine fitted with movement alarm</li> <li>• Machine fitted with warning lights</li> <li>• Machine fitted with Spot lights for working in low of no natural light</li> <li>• Machine fitted with rear view mirrors</li> </ul>	2
<b>High Pressure Fluid:</b>		<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> </ul>	

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<i>Contact with high pressure fluids during operation or maintenance</i>	16	<ul style="list-style-type: none"> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Operator Manual Located in Cab of Machine at all times</li> <li>• Machine controls have their functions labelled</li> <li>• Machine buckets, attachments etc are always lowered to the ground before any attempt to repair or inspect them</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• All fluid lines are relieved on any pressure before they are disconnected and/or repaired</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Regular job briefing take place between all relevant stakeholders when machine is operating</li> <li>• Lockable cab to prevent unauthorised access</li> <li>• Driver only permitted in cab during operation</li> </ul>	2
<b>Electrical:</b> <i>Contact with live electrical conductors during operation, overload of electrical circuits, electrical</i>	23	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP106 to be read and understood by all operators</li> </ul>	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<i>leads and cables</i>		<ul style="list-style-type: none"> <li>• Operator Manual Located in Cab of Machine at all times</li> <li>• All obstacles that may be in the path of a machine are removed before work commences</li> <li>• Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine is fitted with circuit breakers and fuses</li> <li>• Warning signage inside machine to warn of contact with overhead powerlines</li> <li>• Machine fitted with movement alarm</li> <li>• Machine fitted with UHF Radio</li> <li>• Machine fitted with Spot lights for working in low of no natural light</li> <li>• Machine fitted with rear view mirrors</li> </ul>	
<b>Explosion:</b> <i>Explosion of onboard fuel supply or other substances</i>	16	<ul style="list-style-type: none"> <li>• Operator Manual Located in Cab of Machine at all times</li> <li>• All obstacles that may be in the path of a machine are removed before work commences</li> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> </ul>	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> <li>• All fluid lines are relieved on any pressure before they are disconnected and/or repaired</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Machine is fitted with circuit breakers and fuses</li> <li>• Regular job briefing take place between all relevant stakeholders when machine is operating</li> </ul>	
<p><b>Slipping, Tripping, Falling:</b></p> <p>Uneven or slippery surfaces, poor housekeeping, other obstacles, poor access and egress, lack of handrails</p>	17	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP106 to be read and understood by all operators</li> <li>• Operator Manual Located in Cab of Machine at all times</li> <li>• Machine bucket, attachments etc are always lowered</li> </ul>	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<p>to the ground before any attempt to repair or inspect them</p> <ul style="list-style-type: none"> <li>• Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> <li>• Handrails in place to allow for safe access and egress</li> <li>• All personnel accessing and egressing machine must always maintain a 3 point contact</li> <li>• Slip resistant ladder rails and foot wells are fitted</li> <li>• Machine fitted with Spot lights for working in low of no natural light</li> </ul>	
<p><b>Ergonomic:</b></p> <p><i>Seating, repetitive body movements, inadequate lighting, poor vision from normal operating position</i></p>	13	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• Handrails in place to allow for safe access and egress</li> <li>• All personnel accessing and egressing machine must always maintain a 3 point contact</li> <li>• Slip resistant ladder rails and foot wells are fitted</li> <li>• Machine is fitted with a seat belt and warning signage</li> <li>• Machine fitted with movement alarm</li> </ul>	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> <li>Machine fitted with warning lights</li> <li>Machine fitted with UHF Radio</li> <li>Machine fitted with Spot lights for working in low of no natural light</li> <li>Ergonomically designed , fully adjustable operator seat in stalled</li> <li>Machine fitted with rear view mirrors</li> <li>Lockable cab to prevent unauthorised access</li> <li>Windscreen wipers fitted</li> <li>Driver only permitted in cab during operation</li> </ul>	
<p><b>Suffocation:</b></p> <p>Exhaust Gases, atmospheric contamination, other fume sources</p>	16	<ul style="list-style-type: none"> <li>Licensed and Competent Operators</li> <li>No unauthorised personnel allowed at the controls of the machine</li> <li>Fieldwicks SWP106 to be read and understood by all operators</li> <li>Operator Manual Located in Cab of Machine at all times</li> <li>Daily plant inspections before the beginning of a shift</li> </ul>	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<p>are used to identify any potential machine issues that may exist</p> <ul style="list-style-type: none"> <li>• All fluid lines are relieved on any pressure before they are disconnected and/or repaired</li> <li>• Isolation Procedures are undertaken before any maintenance activity</li> </ul>	
<p><b>High Temperature:</b></p> <p>Engine or exhausts, fluids or other exposure to high temperatures</p>	16	<ul style="list-style-type: none"> <li>• Licensed and Competent Operators</li> <li>• No unauthorised personnel allowed at the controls of the machine</li> <li>• Fieldwicks SWP106 to be read and understood by all operators</li> <li>• Operator Manual Located in Cab of Machine at all times</li> <li>• Daily plant inspections before the beginning of a shift</li> </ul>	5

<b>Hazards/Risk Factors</b>	<b>Uncontrolled Risk Score</b>	<b>Control Measures</b>	<b>Controlled Risk Score</b>
		<p>are used to identify any potential machine issues that may exist</p> <ul style="list-style-type: none"> <li>• Isolation Procedures are undertaken before any maintenance activity</li> </ul>	

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Plant Specific Control Measures	Control Measure Description
<b>Falling Objects Protection System (FOPS)</b>	Gives added protection to the operator and cab

Note : Refer to the Risk Matrix set out in OH&SP No. 004 for calculation of risk level